

Biotin anti-human CD57

Catalog # / Size: 322304 / 100 µg

Clone: HCD57

Isotype: Mouse IgM, κ

Reactivity: Human

Preparation: The antibody was conjugated with biotin under optimal conditions, and is at >85% purity. The solution is free of unconjugated biotin.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**

Applications:

Applications: FC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.03 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: The HCD57 antibody has been shown to recognize human CD57 and to be useful for flow cytometry.

Application References: 1. Kaplan RC, *et al.* 2011. *J. Infect Dis.* 10:76. PubMed
 2. Lutz CT, *et al.* 2011. *J. Immunol.* 186:4590. PubMed

Description: CD57, also known as HNK-1, NK-1, and Leu-7, is a 100-115 kD oligosaccharide antigenic determinant expressed on a variety of proteins, lipids, and chondroitin sulfate proteoglycans. CD57 is expressed on a subset of peripheral blood lymphocytes, including NK cells and CD8⁺ T cells, and is also expressed on neural cells and striated muscle. CD57 is not expressed on red cells, granulocytes, monocytes, or platelets. While the function of CD57 is unknown, binding to L-selectin, P-selectin, and a fragment of laminin suggests that CD57 may be involved in cell-matrix interactions. CD57 is increased in some disease states associated with CD4/CD8 imbalances (AIDS, autoimmune disease, viral infections, and allograft transplants).

Antigen References: 1. Schubert J, *et al.* 1989. In *Leucocyte Typing IV* (Knapp W, ed) Oxford University Press Oxford pp 711-714.
 2. Palmer BE, *et al.* 2005. *J. Immunol.* 175:8415.
 3. Schachner M, *et al.* 1995. *Trends Neurosci.* 18:183.
 4. Wood KL, *et al.* 2005. *Clin. Immunol.* 117:294.

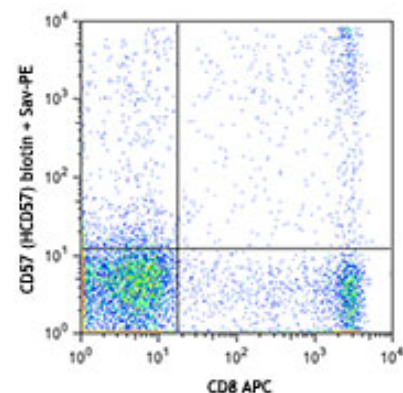
Related Products:

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|-----------------------------------------------------|-------|
| APC Streptavidin | |
| PE Streptavidin | |
| Cell Staining Buffer | |
| Biotin Mouse IgM, κ Isotype Ctrl | MM-30 |
| Human TruStain FcX™ (Fc Receptor Blocking Solution) | |

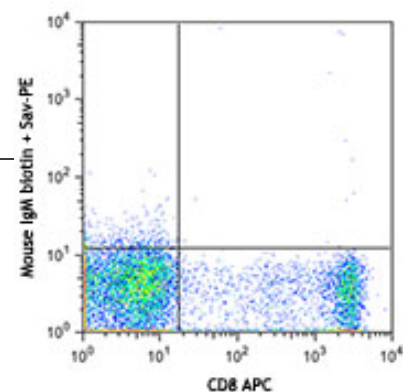
Clone

Application

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| FC, ICFC |
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| FC, ICFC |
| FC, ICC, ICFC |



Human peripheral blood lymphocytes were stained with CD8 APC and biotinylated CD57 (clone HCD57) (top) or mouse IgM isotype control (bottom), followed by Sav-PE.



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